



**Key Vocabulary**

**Volume of Cubes and Cuboids**

**cubed**

Volume is measured in cubed units. For example,  $\text{cm}^3$ ,  $\text{m}^3$  and  $\text{km}^3$ .

**area**

To calculate the volume of cubes and cuboids:

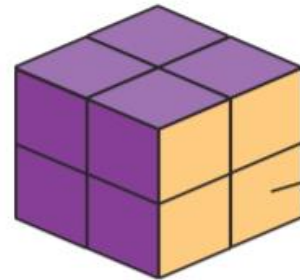
1. Calculate the area of the cross-section (one face).
2. Multiply the area of the cross-section (one face) by its depth.



**cross section**

**prism**

**cube**



Area of cross section (face) =  $2\text{cm} \times 2\text{cm} = 4\text{cm}^2$

$4\text{cm}^2 \times 2\text{cm} = \text{Volume of } 8\text{cm}^3$

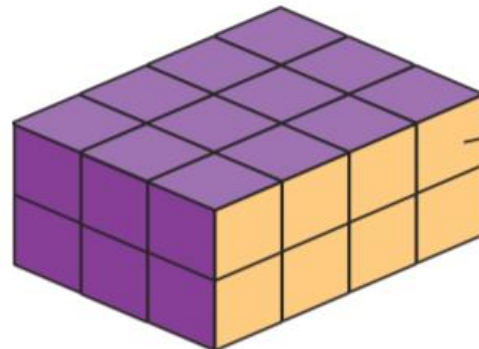
**cuboid**



**face**

**length**

**height**



Area of cross section (face) =  $4\text{cm} \times 2\text{cm} = 8\text{cm}^2$

$8\text{cm}^2 \times 3\text{cm} = \text{Volume of } 24\text{cm}^3$

**width**

**depth**

